

Name: \_\_\_\_\_ Date: \_\_\_\_\_

A2CC: Rational Expressions (Equations)

**Warm Up:**

a) Express in simplest form:

$$\frac{x-4}{4-x}$$

b) Show how you can rewrite  $\frac{11x}{6-x}$

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1)  $\frac{1}{3} + \frac{1}{x} = \frac{1}{2}$

STEPS:

$$2) \frac{x+9}{2x} + 3 = \frac{15}{x}$$

$$3) \frac{x-6}{x} - \frac{1}{6} = \frac{4}{x}$$

$$4) \frac{1}{h+1} + \frac{1}{h-1} = \frac{2}{h^2-1}$$

5) Solve for  $J$  in terms of  $F$  and  $W$ .

$$\frac{1}{J} + \frac{1}{W} = \frac{1}{F}$$

6)  $\frac{1}{3a} + \frac{5}{12} = \frac{2}{a}$

$$7) \frac{1}{x} - \frac{1}{9} = \frac{x-5}{18}$$

$$8) \frac{2+x}{6x} = \frac{3}{5x} + \frac{1}{30}$$

$$9) \frac{x+1}{2} = \frac{5x-3}{3} + 5$$